



UNM LEARN



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## Take Test: Lab 4 Quiz

### Test Information

**Description** This quiz covers topics related to Lab 4. The questions cover: requirements, hardware and software details, as well as implementation details.

**Instructions** You are allowed multiple attempts before the due date. You must submit your last attempt before the due date. If you start an attempt, you must submit otherwise you will not get a grade for the quiz.

**Multiple Attempts** This test allows multiple attempts.

**Force Completion** This test can be saved and resumed later.

### QUESTION 1

**10 points****Saved**

What is the maximum division for a PBCLK input into a timer?

☒ 256

☐ 128

☐ 512

☐

64

**QUESTION 2****5 points****Saved**

In the lecture videos for Lab 4, the interrupt flag must be cleared when configuring the interrupt controller.

- ☒ True  
☐ False

**QUESTION 3****10 points****Saved**

How often should LED1 toggle?

- ☐ Every 2 seconds  
☐ Every 1 second  
☒ Every 0.5 seconds  
☐ Every 4 seconds

**QUESTION 4****10 points****Saved**

How often should LED4 toggle?

- ☐ Every 0.5 seconds  
☒ Every 4 seconds  
☐ Every 2 seconds  
☐ Every 1 second

**QUESTION 5****5 points****Saved**

,In the lecture videos for Lab 4, the interrupt flag does not need to be manually cleared when exiting an ISR.

- ☐ True
- ☒ False

**QUESTION 6****10 points****Saved**

What frequency does PBCLK operate at?

- ☐ 80MHz
- ☐ 32.768MHz
- ☐ 20MHz
- ☒ 10MHz

**QUESTION 7****10 points****Saved**

In the lecture videos for Lab 4, where is the raw\_count incremented?

- ☒ In an ISR
- ☐ In the .data section
- ☐ In a subroutine
- ☐ In the main routine

**QUESTION 8****10 points****Saved**

What is the maximum count for timer 1?

- ☐ 4294967295
- ☐ 4294967296
- ☒ 65,535
- ☐ 65,536

**QUESTION 9****10 points****Saved**

What is the period for once cycle of PBCLK when divided by 256?

- ☐ 7.8125uS
- ☐ 3.2uS
- ☒ 25.6uS
- ☐ 12.8uS

**QUESTION 10****10 points****Saved**

How often should the counter that counts from 0 to 255 increment?

- ☒ Every 1 second
- ☐ Every 2 seconds
- ☐ Every 4 seconds

☐ Every 0.5 seconds

**QUESTION 11****10 points****Saved**

In the lecture videos for Lab 4, what is the timing method used to generate a 2Hz signal?

- ☐ The DelayMs() function
- ☐ Timer 2 interrupts
- ☐ PBCLK with a divider circuit
- ☒ Timer 1 interrupts

🚩 Question Completion Status:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

In the lecture videos for Lab 4, the interrupts are single-vectored.

- ☐ True
- ☒ False

**QUESTION 13****10 points****Saved**

On which output pin is LED4?

- ☐ RG14
- ☐ RG13
- ☒ RG15
- ☐ RG12

**QUESTION 14****10 points****Saved**

In the lecture videos for Lab 4, how is a one second pulse sent to LEDs?

- ☒ By dividing the 2Hz signal generated using timer 1.
- ☐ Using timer 2
- ☐ By dividing PBCLK by 256
- ☐ By dividing PBCLK by 512

**QUESTION 15****5 points****Saved**

What size timer must be used for a 10 second interval when dividing by 256?

- ☐ 8 Bit
- ☒ 32 Bit
- ☐ 64 Bit
- ☐ 16 Bit

*Click Save and Submit to save and submit. Click Save All Answers to save all answers.*

**Save All Answers****Save and Submit**